



Friday, July 10, 2020

Attn: Ms. Jennifer Atkins
AECOM
250 Apollo Drive
Chelmsford, MA 01824

Project ID: GULF CHELSEA TERMINAL 60597375-0500
SDG ID: GCG26804
Sample ID#s: CG26804 - CG26806

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



SDG Comments

July 10, 2020

SDG I.D.: GCG26804

Version 2:
Re-evaluated CG26804 8270 SIM analysis and lowered RL.



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Sample Id Cross Reference

July 10, 2020

SDG I.D.: GCG26804

Project ID: GULF CHELSEA TERMINAL 60597375-0500

Client Id	Lab Id	Matrix
OUTFALL 003	CG26804	SW DISCHARGE
TRIP BLANK 1	CG26805	SW DISCHARGE
TRIP BLANK 2	CG26806	SW DISCHARGE



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Analysis Report

July 10, 2020

FOR: Attn: Ms. Jennifer Atkins
AECOM
250 Apollo Drive
Chelmsford, MA 01824

Sample Information

Matrix: SW DISCHARGE
Location Code: AECOME-GULF
Rush Request: 72 Hour
P.O.#: 112185

Custody Information

Collected by:
Received by: CP
Analyzed by: see "By" below

Date

07/01/20
07/02/20

Time

13:25
15:53

Laboratory Data

SDG ID: GCG26804
Phoenix ID: CG26804

Project ID: GULF CHELSEA TERMINAL 60597375-0500
Client ID: OUTFALL 003

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Oil and Grease by EPA 1664A	< 1.4	1.4	mg/L	1	07/06/20	MSF	EPA 1664
pH	7.99	1.00	pH Units	1	07/02/20 19:54	AP	SM4500-H B-11
Total Suspended Solids	35	8.3	mg/L	1.7	07/04/20	ARG/QH	SM 2540D-11
Semi-Volatile Extraction	Completed				07/02/20	P/D	SW3520C

Aromatic Volatiles w/Napthalene

Benzene	ND	1.0	ug/L	1	07/02/20	HM	E624.1
Napthalene	ND	1.0	ug/L	1	07/02/20	HM	E624.1

QA/QC Surrogates

% 1,2-dichlorobenzene-d4	105		%	1	07/02/20	HM	70 - 130 %
% Bromofluorobenzene	90		%	1	07/02/20	HM	70 - 130 %
% Dibromofluoromethane	104		%	1	07/02/20	HM	70 - 130 %
% Toluene-d8	100		%	1	07/02/20	HM	70 - 130 %

Semivolatiles by SIM, PAH

Benzo(a)pyrene	ND	0.10	ug/L	1	07/04/20	WB	E625.1
Napthalene	ND	0.50	ug/L	1	07/04/20	WB	E625.1

QA/QC Surrogates

% 2-Fluorobiphenyl	44		%	1	07/04/20	WB	40 - 140 %
% Nitrobenzene-d5	66		%	1	07/04/20	WB	40 - 140 %
% Terphenyl-d14	24		%	1	07/04/20	WB	40 - 140 %

3

Client ID: OUTFALL 003

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
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3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

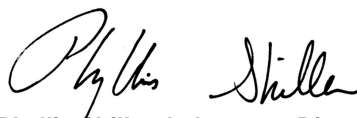
Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Semi-Volatile Comment:

Poor surrogate recovery was observed for one surrogate. The other surrogates associated with this sample were within QA/QC criteria. No significant bias suspected.

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Phyllis Shiller, Laboratory Director

July 10, 2020

Reviewed and Released by: Phyllis Shiller, Laboratory Director



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Analysis Report

July 10, 2020

FOR: Attn: Ms. Jennifer Atkins
AECOM
250 Apollo Drive
Chelmsford, MA 01824

Sample Information

Matrix: SW DISCHARGE
Location Code: AECOME-GULF
Rush Request: Standard
P.O.#: 112185

Custody Information

Collected by:
Received by: CP
Analyzed by: see "By" below

Date

07/01/20
07/02/20

Time

8:00
15:53

Laboratory Data

SDG ID: GCG26804
Phoenix ID: CG26805

Project ID: GULF CHELSEA TERMINAL 60597375-0500
Client ID: TRIP BLANK 1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Aromatic Volatiles w/Napthalene</u>							
Benzene	ND	1.0	ug/L	1	07/02/20	HM	E624.1
Napthalene	ND	1.0	ug/L	1	07/02/20	HM	E624.1
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	106		%	1	07/02/20	HM	70 - 130 %
% Bromofluorobenzene	91		%	1	07/02/20	HM	70 - 130 %
% Dibromofluoromethane	104		%	1	07/02/20	HM	70 - 130 %
% Toluene-d8	100		%	1	07/02/20	HM	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

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Phyllis Shiller, Laboratory Director

July 10, 2020

Reviewed and Released by: Phyllis Shiller, Laboratory Director



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Analysis Report

July 10, 2020

FOR: Attn: Ms. Jennifer Atkins
AECOM
250 Apollo Drive
Chelmsford, MA 01824

Sample Information

Matrix: SW DISCHARGE
Location Code: AECOME-GULF
Rush Request: Standard
P.O.#: 112185

Custody Information

Collected by:
Received by: CP
Analyzed by: see "By" below

Date

07/01/20
07/02/20

Time

8:00
15:53

Laboratory Data

SDG ID: GCG26804
Phoenix ID: CG26806

Project ID: GULF CHELSEA TERMINAL 60597375-0500
Client ID: TRIP BLANK 2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Aromatic Volatiles w/Napthalene</u>							
Benzene	ND	1.0	ug/L	1	07/02/20	HM	E624.1
Napthalene	ND	1.0	ug/L	1	07/02/20	HM	E624.1
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	106		%	1	07/02/20	HM	70 - 130 %
% Bromofluorobenzene	91		%	1	07/02/20	HM	70 - 130 %
% Dibromofluoromethane	104		%	1	07/02/20	HM	70 - 130 %
% Toluene-d8	99		%	1	07/02/20	HM	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

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Phyllis Shiller, Laboratory Director

July 10, 2020

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QA/QC Report

July 10, 2020

QA/QC Data

SDG I.D.: GCG26804

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 536186 (mg/L), QC Sample No: CG26609 (CG26804)													
Oil and Grease by EPA 1664A	BRL	1.4	<1.4	<1.4	NC	101			93.0			85 - 115	20
Comment:													
Additional: MS acceptance range 75-125%.													
QA/QC Batch 536156 (pH), QC Sample No: CG26612 (CG26804)													
pH			7.43	7.34	1.20	99.5						85 - 115	20
Comment:													
Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%.													
QA/QC Batch 536177 (mg/L), QC Sample No: CG26701 (CG26804)													
Total Suspended Solids	BRL	2.5	6.7	6.0	NC	99.0						85 - 115	



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QA/QC Report

July 10, 2020

QA/QC Data

SDG I.D.: GCG26804

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 536069 (ug/L), QC Sample No: CG23771 (CG26804)										
<u>Semivolatiles by SIM, PAH</u>										
Benzo(a)pyrene	ND	0.02	66	83	22.8				40 - 140	20 r
Naphthalene	ND	0.50	64	66	3.1				40 - 140	20
% 2-Fluorobiphenyl	57	%	59	58	1.7				40 - 140	20
% Nitrobenzene-d5	64	%	67	72	7.2				40 - 140	20
% Terphenyl-d14	78	%	69	77	11.0				40 - 140	20

Comment:

Additional 8270 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 10-110%, for soils 30-130%)

QA/QC Batch 536194 (ug/L), QC Sample No: CG26901 (CG26804, CG26805, CG26806)

Volatiles

Benzene	ND	0.70	90	97	7.5	89	97	8.6	65 - 135	20
Naphthalene	ND	1.0	99	106	6.8	95	105	10.0	70 - 130	30
% 1,2-dichlorobenzene-d4	105	%	99	100	1.0	101	101	0.0	70 - 130	30
% Bromofluorobenzene	93	%	100	98	2.0	100	99	1.0	70 - 130	30
% Dibromofluoromethane	102	%	100	100	0.0	98	99	1.0	70 - 130	30
% Toluene-d8	99	%	98	96	2.1	98	98	0.0	70 - 130	30

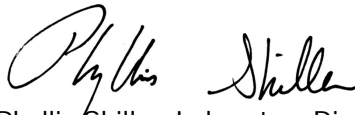
Comment:

A blank MS/MSD was analyzed with this batch.

r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference


Phyllis Shiller, Laboratory Director
July 10, 2020

Friday, July 10, 2020

Criteria: None

State: MA

Sample Criteria Exceedances Report

GCG26804 - AECOME-GULF

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



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Analysis Comments

July 10, 2020

SDG I.D.: GCG26804

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.

